TEST REPORT

Technical Report	**(7221)099-0169**	October 25th,2021
Date Received	October 7th,2021	Page 1 of 24

Factory Company Name:	AKPOLAT LOJISTIK TEKSTIL VE INS. ITH. IHR. SAN. TIC. LTD. STI.
Factory Address:	FEVZIPASA NEIGHBORHOOD DERMAN STREET NO:25-25 /A-25/ B SILIVRI-ISTANBUL/TURKEY
Project No.:	N/A
Client Reference No.:	N/A
Sampling Method:	I001) Raw Wastewater – 6 hours - Time – weighted Composite I002) Treated Wastewater – 6 hours - Time – weighted Composite
Sample Pick Up Date:	October 7th,2021
Wastewater Discharge to:	Municipal ETP
On-Site Effluent Treatment Plant (ETP):	Yes
Discharge Type:	Indirect Discharge
Off-site ETP name (if applicable):	Istanbul Water and Sewerage Administration
Off-site ETP address (if applicable):	Fevzipasa, 34580 Silivri/İstanbul
Local Regulation: / Ordinance / requirements related to wastewater discharged are followed:	Tablo 1: Desarj Limitleri Atiksularin Atiksu Altyapi Tesislerine Desarjinda Ongorulen Atiksu Standartlari (See Appendix D)
Permit Validation Date:	The permit validation date is not valid.
Parameters Exceeded Local Regulation	1A)Conventional Parameters (COD, Sulfide)
Legal compliance:	Not comply
Conventional Parameters Overall Category:	Not comply with discharge license document
Test Period:	October 8th,2021- October 22nd,2021
Sample Description:	I001) Beige liquid– Raw Wastewater I002) Beige liquid – Treated Wastewater
Parameters exceeded maximum holding time:	N/A

Bureau Veritas
Consumer Products Services, Inc.
Yalçın Koreş Caddesi No:22 Erdinç Binaları A Blok 2. Kule 1. Kat 34209 Güneşli, Istanbul / Turkey
Tel:+90.212.494 35 35 Fax:+90.212.494 35 60
email:info.turkey@bvcps.com.tr
website: www.bureauveritas.com/cps

REMARK1: Analysis of Table1 conventional parameters, except pH, temperature, heavy metals have subcontracted to local accredited laboratories. (Accreditation number no: AB-0363-T AB-0012-T AB-0241-T)

REMARK2: Please refer to discharge permission letter and discharge criteria of the offsite ETP attached at the end of this report.

REMARK

If there are questions or concerns on this report, please contact the following persons:

General enquiry and invoicing	Kerem Can	Kerem.can@bureauveritas.com
Technical enquiry-Chemical	Ayca Cevikus	Ayca.cevikus@bureauveritas.com

This report shown the test result of the auxiliary chemical and/or raw material samples, which collected during particular factory audit. The results of this report shall not be used for any regulatory compliance purposes.

* The sampling is agreed with client.

PREPARED BY:	**Ayca Cevikus** **MEA CDM Manager** **Zero Discharge & Higg Verification& Environmental**	**Kerem Can** **Deputy General Manager & Operation Manager**

Executive Summary

1A) Conventional	**I001**	**I002**
Temperature	NR	N/A
TSS		☐
COD		■
Total-N		N/A
pH Value		☐
Color [m^{-1}] (436nm;		N/A
BOD_5		N/A
Ammonium-N		N/A
Total-P		N/A
AOX		N/A
Oil and Grease		N/A
Phenol		N/A
Coliform		N/A
Persistent Foam		N/A
ANIONS - Cyanide		N/A
ANIONS - Sulfide		■
ANIONS - Sulfite		N/A
1B) Conventional Parameters – METALS	N/A	N/A

Note / Key :

- ☐ – Meet discharge license criteria
- ■ – Exceeding discharge license criteria
- NR – Not Requested / Not required
- N/A – Not Applicable

ZDHC MRSL Substances	**I001**	**I002**
2A) APs and APEOs	o	o
2B) Chlorobenzenes and Chlorotoluenes	o	o
2C) Chlorophenols	o	o
2D) Azo Dyes	o	o
2E) Carcinogenic Dyes	o	o
2F) Disperse Dyes	o	o
2G) Flame Retardants	o	o
2H) Glycols	o	o
2I) Halogenated Solvents	o	o
2J) Organotin Compounds	o	o
2K) Perfluorinated and Polyfluorinated	o	o
2L) Phthalates	o	o
2M) Poly Aromatic Hydrocarbons	o	o
2N) Volatile Organic Compounds	o	o

Note / Key :

- ● – Detected
- o – Not Detected
- NR – Not Requested
- N/A – Not Applicable

Objective

The environment samples were tested for below parameters.

1A) Conventional Parameters
1B) Conventional Parameters – METALS
2A) APs and APEOs
2B) Chlorobenzenes and Chlorotoluenes
2C) Chlorophenols
2D) Azo Dyes
2E) Carcinogenic Dyes
2F) Disperse Dyes
2G) Flame Retardants
2H) Glycols
2I) Halogenated Solvents
2J) Organotin Compounds
2K) Perfluorinated and Polyfluorinated Chemicals
2L) Phthalates
2M) Poly Aromatic Hydrocarbons
2N) Volatile Organic Compounds

Sampling Plan

Basically, two environment samples were sampled per factory, including 1) Raw Wastewater and 2) Discharged Wastewater Total number of sample collected will be depended on the actual factory facilities and manufacturing processes.

Method of sampling used is time-weighted composite sample (agreed with client.). Composite sampling shall be performed for no less than six hours, with no more than one hour between discrete samples. Each discrete sample shall be of equal volume. Wastewater and freshwater samples should, as much as possible, be collected simultaneously, during the time that PU is in normal operation. The sampling shall aim to analyse the snapshot of water quality characteristics of the operating PU. Under no circumstance shall samples be taken during times when the production process is not running or the wastewater is diluted due to heavy rainfall, etc.

Remark :

- Sampling procedure is with reference to below standards:
  1) South Australia EPA Guidelines (June 2007), Regulatory Monitoring and Testing Water and Wastewater Sampling.
  2) Australia EPA (Victoria) Guideline (June 2009), Sampling and Analysis of Waters, Wastewaters, Soils and Wastes.
  3) ISO 5667-3:2003, Water Quality - Sampling - Part 3: Guidance on the Preservation and Handling of Water Samples.
  4) ASTM D3976-92 (Reapproved 2010), Standard Practice for Preparation of Sediment Samples for Chemical Analysis.
- Field data records are attached in Appendix C.

Test Result

1A) Conventional Parameters

Temperature

Test Method : Measurement by U. S. EPA170.1

Tested Item(s)	Result	Unit	Conclusion
I002	▲2 / max. 33 °C	deg. C	DATA

Note:

deg. C = degree Celsius (°C)

Discharge License Criteria: Not Applicable

Total Suspended Solids (TSS)

Test Method : Reference to APHA 2540 D

Tested Item(s)	Result	Unit	Conclusion
I002	230 (Comply with discharge license)	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: 500 mg/L

Chemical Oxygen Demand (COD)

Test Method : Reference to APHA 5220 D

Tested Item(s)	Result	Unit	Conclusion
I002	1473.7 (Not comply with discharge license)	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: 1000 mg/L

Total Nitrogen (Total-N)

Test Method : Reference to SM 4500-Norg:B, SM 4500-NO3:E

Tested Item(s)	Result	Unit	Conclusion
I002	43.08	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: Not Applicable

pH Value

Test Method : Reference to U. S. EPA 150.1

-	**Unit**	**Result**
Test Item(s)	-	I002
Parameter	-	-
Temp. of sample	deg. C	25
pH value of sample	-	7.89 (Comply with discharge license)
Conclusion	-	DATA

Note:

Temp. = Temperature deg. C = degree Celsius (°C)

Discharge License Criteria: 6-12

Color [m^{-1}] (436nm; 525nm; 620nm)

Test Method : With reference to ISO 7887-B

Tested Item(s)	**Result**	**Unit**	**Conclusion**
I002	14.8; 8.8 ; 6	m^{-1}	DATA

Note:

Discharge License Criteria: Not Applicable

Biochemical Oxygen Demand (BOD_5)

Test Method : Reference to APHA 5210B (5 days)

Tested Item(s)	**Result**	**Unit**	**Conclusion**
I002	603.5	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: Not Applicable

Ammonium Nitrogen

Test Method : Reference to APHA 4500 NH_3 B,F

Tested Item(s)	**Result**	**Unit**	**Conclusion**
I002	0.7	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: Not Applicable

Total Phosphorus (Total-P)

Test Method : Reference to APHA 4500-P B,C

Tested Item(s)	Result	Unit	Conclusion
I002	17.5	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: Not Applicable

Adsorbable Organic Halogens (AOX)

Test Method : Reference to ISO 9562

Tested Item(s)	Result	Unit	Conclusion
I002	1.05	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: Not Applicable

Oil and Grease

Test Method : Reference to ISO 9377-2

Tested Item(s)	Result	Unit	Conclusion
I002	<0.003	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: Not Applicable

Phenol

Test Method : Reference to APHA 5530 B,D

Tested Item(s)	Result	Unit	Conclusion
I002	<0.1	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: Not Applicable

Coliform

Test Method : Reference to ISO 9308-1

Tested Item(s)	Result	Unit	Conclusion
I002	1900	bacteria/ 100 mL	DATA

Note:
bacteria/100 mL = bacteria per 100 milliliters
Discharge License Criteria: Not Applicable

Remark: Due to the colonies is huge, result of coliform content is base on sample having dilution factor 100 times

Persistent Foam

Test Method : Visual

Tested Item(s)	Result	Unit	Conclusion
I002	No foam	-	DATA

Discharge License Criteria: Not Applicable

ANIONS - Cyanide

Test Method : Reference to SM 4500-CN C/ SM 4500-CN E

Tested Item(s)	Result	Unit	Conclusion
I002	<0.01 (Comply with discharge license)	mg/L	DATA

Note:
mg/L = milligram per liter

Discharge License Criteria: Not Applicable

ANIONS - Sulfide

Test Method : Reference to APHA 4500 S^{2-}D

Tested Item(s)	Result	Unit	Conclusion
I002	10 (Not comply with discharge license)	mg/L	DATA

Note:
mg/L = milligram per liter

Discharge License Criteria: 2 mg/L

ANIONS - Sulfite

Test Method : Reference to SM 4500-SO3-2 C

Tested Item(s)	Result	Unit	Conclusion
I002	7.44	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: Not Applicable

1B) Conventional Parameters – METALS

Heavy Metals	**I001** ***(mg/L)***	**I002** ***(mg/L)***
Antimony(Sb) Discharge License Criteria: Not applicable	0.1097	0.2577
Chromium(Cr), total Discharge License Criteria: Not applicable	0.0241	0.022
Cobalt(Co) Discharge License Criteria: Not applicable	ND	ND
Copper(Cu) Discharge License Criteria: Not applicable	0.0343	0.0194
Nickel (Ni) Discharge License Criteria: Not applicable	ND	ND
Silver (Ag) Discharge License Criteria: Not applicable	ND	ND
Zinc(Zn) Discharge License Criteria: Not applicable	0.2423	0.2158
Arsenic (As) Discharge License Criteria: Not applicable	0.0028	ND
Cadmium(Cd) Discharge License Criteria: Not applicable	0.0001	0.0001
Chromium VI(CrVI) Discharge License Criteria: Not applicable	ND	ND
Lead(Pb) Discharge License Criteria: Not applicable	0.0012	0.0011
Mercury (Hg) Discharge License Criteria: Not applicable	ND	ND

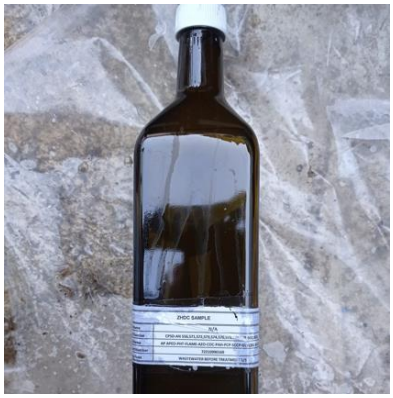
Others Priority Chemical Groups

	I001 ***(ug/L)***	**I002** ***(ug/L)***
2A) APs and APEOs	ND	ND
2B) Chlorobenzenes and Chlorotoluenes	ND	ND
2C) Chlorophenols	ND	ND
2D) Azo Dyes	ND	ND
2E) Carcinogenic Dyes	ND	ND
2F) Disperse Dyes	ND	ND
2G) Flame Retardants	ND	ND
2H) Glycols	ND	ND
2I) Halogenated Solvents	ND	ND
2J) Organotin Compounds	ND	ND
2K) Perfluorinated and Polyfluorinated Chemicals	ND	ND
2L) Phthalates	ND	ND
2M) Poly Aromatic Hydrocarbons	ND	ND
2N) Volatile Organic Compounds	ND	ND

Remark：

- Test method, reporting limit and list of chemical are summarized in tables of Appendix A
- ND = Not detected (Please refer to reporting limit shown in Appendix A.).
- All results are in ppb as unit.
- ppm = part(s) per million; ppb = part(s) per billion.

APPENDIX A - Photo of the Sample/ Sampling Location

I001) Sampling Point N/S 41° 4′ 25.24″ E/W 28° 14′ 52.3″ 	I001) Sampling Point Surrounding Environment N/S 41° 4′ 25.24″ E/W 28° 14′ 52.3″ 
I001) All sampled bottles with label 	I001) pH value 
I001) Sample for Phthalate Testing 	I001) Packaging 

I002) Sampling Point N/S 41° 4′ 25.24″ E/W 28° 14′ 52.3″ 	I002) Sampling Point Surrounding Environment N/S 41° 4′ 25.24″ E/W 28° 14′ 52.3″ 
I002) All sampled bottles with label 	I002) pH value 
I002) Sample for Phthalate Testing 	I002) Packaging 

APPENDIX B

Group	Substance (Testing parameter)	CAS No.	Report Limit		Name of the testing method
			Wastewater (ug/L)/(ppb)	Sludge (mg/kg)/(ppm)	
2A. Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	Nonylphenol NP, mixed isomers	Various (incl. 104-40-5, 11066-49-2, 25154-52-3, 84852-15-3)	5	0.4	NP/OP: ISO 18857-2 (modified dichloromethane extraction) or ASTM D7065 (GC/MS or LC/MS(-MS) OPEO/NPEO: ISO18857-2 or ASTM D7065(LC/MS; GC/MS or LC/MSMS for n=1,2) APEO 1-18
	Octylphenol OP, mixed isomers	Various (incl. 140-66-9, 1806-26-4, 27193-28-8)	5	0.4	
	Octylphenol ethoxylates (OPEO)	Various (incl. 9002-93-1, 9036-19-5, 68987-90-6)	5	0.4	
	Nonylphenol ethoxylates (NPEO)	Various (inc. 9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4, 127087-87-0)	5	0.4	
2B. Chlorobenzenes and Chlorotoluenes	Monochlorobenzene	108-90-7	0.2	0.2	USEPA 8260B,8270D. Dichloromethane extraction followed by GC/MS
	1,2-Dichlorobenzene	95-50-1	0.2	0.2	
	1,3-Dichlorobenzene	541-73-1	0.2	0.2	
	1,4-Dichlorobenzene	106-46-7	0.2	0.2	
	1,2,3-Trichlorobenzene	87-61-6	0.2	0.2	
	1,2,4-Trichlorobenzene	120-82-1	0.2	0.2	
	1,3,5-Trichlorobenzene	108-70-3	0.2	0.2	
	1,2,3,4-Tetrachlorobenzene	634-66-2	0.2	0.2	
	1,2,3,5-Tetraclorobenzene	634-90-2	0.2	0.2	
	1,2,4,5-Tetrachlorobenzene	95-94-3	0.2	0.2	
	Pentachlorobenzene	608-93-5	0.2	0.2	
	Hexachlorobenzene	118-74-1	0.2	0.2	
	2-Chlorotoluene	95-49-8	0.2	0.2	
	3-Chlorotoluene	108-41-8	0.2	0.2	
	4-Chlorotoluene	106-43-4	0.2	0.2	
	2,3-Dichlorotoluene	32768-54-0	0.2	0.2	
	2,4-Dichlorotoluene	95-73-8	0.2	0.2	
	2,5-Dichlorotoluene	19398-61-9	0.2	0.2	
	2,6-Dichlorotoluene	118-69-4	0.2	0.2	
	3,4-Dichlorotoluene	95-75-0	0.2	0.2	
	3,5-Dichlorotoluene	25186-47-4	0.2	0.2	
	2,3,4-Trichlorotoluene	7359-72-0	0.2	0.2	
	2,3,6-Trichlorotoluene	2077-46-5	0.2	0.2	
	2,4,5-Trichlorotoluene	6639-30-1	0.2	0.2	
	2,4,6-Trichlorotoluene	23749-65-7	0.2	0.2	
	3,4,5-Trichlorotoluene	21472-86-6	0.2	0.2	
	2,3,4,5-Tetrachlorotoluene	76057-12-0	0.2	0.2	
	2,3,5,6-Tetrachlorotoluene	29733-70-8	0.2	0.2	
	2,3,4,6-Tetrachlorotoluene	875-40-1	0.2	0.2	
	Pentachlorotoluene	877-11-2	0.2	0.2	
2C. Chlorophenols	2-Chlorophenol	95-57-8	0.5	0.05	USEPA 8270 D Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC/MS
	3-Chlorophenol	108-43-0	0.5	0.05	
	4-Chlorophenol	106-48-9	0.5	0.05	
	2,3-Dichlorophenol	576-24-9	0.5	0.05	
	2,4-Dichlorophenol	120-83-2	0.5	0.05	
	2,5-Dichlorophenol	583-78-8	0.5	0.05	

Group	Substance (Testing parameter)	CAS No.	Report Limit		Name of the testing method
			Wastewater (ug/L)/(ppb)	Sludge (mg/kg)/(ppm)	
	2,6-Dichlorophenol	87-65-0	0.5	0.05	
	3,4-Dichlorophenol	95-77-2	0.5	0.05	
	3,5-Dichlorophenol	591-35-5	0.5	0.05	
	2,3,4-Trichlorophenol	15950-66-0	0.5	0.05	
	2,3,5-Trichlorophenol	933-78-8	0.5	0.05	
	2,3,6-Trichlorophenol	933-75-5	0.5	0.05	
	2,4,5-Trichlorophenol	95-95-4	0.5	0.05	
	2,4,6-Trichlorophenol	88-06-2	0.5	0.05	
	3,4,5-Trichlorophenol	609-19-8	0.5	0.05	
	2,3,4,5-Tetrachlorophenol	4901-51-3	0.5	0.05	
	2,3,4,6-Tetrachlorophenol	58-90-2	0.5	0.05	
	2,3,5,6-Tetrachlorophenol	935-95-5	0.5	0.05	
	Pentachlorophenol (PCP)	87-86-5	0.5	0.05	
2D. Dyes - Azo (Forming Restricted Amines)	4,4`-Methylene-bis-(2-chloro-aniline)	101-14-4	0.1	0.2	EN 14362. Reduction step with Sodiumdithionite, solvent extraction, GC/MS or LC/MS
	4,4'-methylenedianiline	101-77-9	0.1	0.2	
	4,4`-Oxydianiline	101-80-4	0.1	0.2	
	4-Chloroaniline	106-47-8	0.1	0.2	
	3,3`-Dimethoxybenzidine	119-90-4	0.1	0.2	
	3,3`-Dimethylbenzidine	119-93-7	0.1	0.2	
	6-methoxy-m-toluidine (p-Cresidine)	120-71-8	0.1	0.2	
	2,4,5-Trimethylaniline	137-17-7	0.1	0.2	
	4,4`-Thiodianiline	139-65-1	0.1	0.2	
	4-Aminoazobenzene	60-09-3	0.1	0.2	
	4-Methoxy-m-phenylenediamine	615-05-4	0.1	0.2	
	4,4`-Methylene-di-o-toluidine	838-88-0	0.1	0.2	
	2,6-Xylidine	87-62-7	0.1	0.2	
	o-Anisidine	90-04-0	0.1	0.2	
	2-Naphthylamine	91-59-8	0.1	0.2	
	3,3`-Dichlorobenzidine	91-94-1	0.1	0.2	
	4-Aminodiphenyl	92-67-1	0.1	0.2	
	Benzidine	92-87-5	0.1	0.2	
	o-Toluidine	95-53-4	0.1	0.2	
	2,4-Xylidine	95-68-1	0.1	0.2	
	4-Chloro-o-toluidine	95-69-2	0.1	0.2	
	4-Methyl-m-phenylenediamine	95-80-7	0.1	0.2	
	o-Aminoazotoluene	97-56-3	0.1	0.2	
	5-nitro-o-toluidine	99-55-8	0.1	0.2	
2E. Dyes-Carcionogenic or Equivalent Concern	C.I. Direct Black 38	1937-37-7	500	10	Liquid Extraction LC/MS
	C.I. Direct Blue 6	2602-46-2	500	10	
	C.I. Acid Red 26	3761-53-3	500	10	
	C.I. Basic Red 9	569-61-9	500	10	
	C.I. Direct Red 28	573-58-0	500	10	
	C.I. Basic Violet 14	632-99-5	500	10	
	C.I. Disperse Blue 1	2475-45-8	500	10	
	C.I. Disperse Blue 3	2475-46-9	500	10	
	C.I. Basic Blue 26 (with Michler's Ketone > 0.1%)	2580-56-5	500	10	
	C.I. Basic Green 4	569-64-2	500	10	

Group	Substance (Testing parameter)	CAS No.	Report Limit		Name of the testing method
			Wastewater (ug/L)/(ppb)	Sludge (mg/kg)/(ppm)	
	(malachite green chloride)				
	C.I. Basic Green 4 (malachite green oxalate)	2437-29-8	500	10	
	C.I. Basic Green 4(malachite green)	10309-95-2	500	10	
	Disperse Orange 11	82-28-0	500	10	
2F. Dyes-disperse (sensitizing)	Disperse Yellow 1	119-15-3	50	2	Liquid Extraction LC/MS
	Disperse Blue 102	12222-97-8	50	2	
	Disperse Blue 106	12223-01-7	50	2	
	Disperse Yellow 39	12236-29-2	50	2	
	Disperse Orange 37/59/76	13301-61-6	50	2	
	Disperse Brown 1	23355-64-8	50	2	
	Disperse Orange 1	2581-69-3	50	2	
	Disperse Yellow 3	2832-40-8	50	2	
	Disperse Red 11	2872-48-2	50	2	
	Disperse Red 1	2872-52-8	50	2	
	Disperse Red 17	3179-89-3	50	2	
	Disperse Blue 7	3179-90-6	50	2	
	Disperse Blue 26	3860-63-7	50	2	
	Disperse Yellow 49	54824-37-2	50	2	
	Disperse Blue 35	12222-75-2	50	2	
	Disperse Blue 124	61951-51-7	50	2	
	Disperse Yellow 9	6373-73-5	50	2	
	Disperse Orange 3	730-40-5	50	2	
	Disperse Blue 35	56524-77-7	50	2	
2G. Flame Retardants	Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	5	1	ISO 22032, USEPA527 and USEPA8321B. Dichloromethane extraction GC/MS or LC/MS(-MS)
	Decabromodiphenyl ether (DecaBDE)	1163-19-5	5	1	
	Tris(2,3-dibromopropyl) phosphate (TRIS/TDBPP)	126-72-7	5	1	
	Pentabromodiphenyl ether (PentaBDE)	32534-81-9	5	1	
	Octabromodiphenyl ether (OctaBDE)	32536-52-0	5	1	
	Bis(2,3-dibromopropyl) phosphate (BIS/BDBPP)	5412-25-9	5	1	
	Tris(aziridinyl)-phosphineoxide (TEPA)	545-55-1	5	1	
	Polybromobiphenyls (PBBs)	59536-65-1	5	1	
	Tetrabromobisphenol A (TBBPA)	79-94-7	5	1	
	Hexabromocyclododecane (HBCDD)	3194-55-6	5	1	
	2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	5	1	
	Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	5	1	
	Short chain chlorinated paraffins (SCCPs) (C10-C13)	85535-84-8	5	1	
2H. Glycols	Bis(2-methoxyethyl)-ether	111-96-6	50	10	US EPA 8270

Group	Substance (Testing parameter)	CAS No.	Report Limit		Name of the testing method
			Wastewater (ug/L)/(ppb)	Sludge (mg/kg)/(ppm)	
	2-ethoxyethanol	110-80-5	50	10	Liquid Extraction LC/MS
	2-ethoxyethyl acetate	111-15-9	50	10	
	Ethylene glycol dimethyl ether	110-71-4	50	10	
	2-methoxyethanol	109-86-4	50	10	
	2-methoxyethylacetate	110-49-6	50	10	
	2-methoxypropylacetate	70657-70-4	50	10	
	Triethylene glycol dimethyl ether	112-49-2	50	10	
2I. Halogenated Solvents	1,2-Dichloroethane	107-06-2	1	2	USEPA 8260B Headspace GC/MS or Purgeand-Trap-GC/MS
	Methylene Chloride	75-09-2	1	2	
	Trichloroethylene	79-01-6	1	2	
	Tetrachloroethylene	127-18-4	1	2	
2J. Organotin Compounds	Mono-, di- and tri-methyltin derivatives	Multiple	0.01	0.2	ISO 17353 Derivatisation with NaB(C2H5) GC/MS
	Mono-, di- and tri-butyltin derivatives	Multiple	0.01	0.2	
	Mono-, di- and tri-phenyltin derivatives	Multiple	0.01	0.2	
	Mono-, di- and tri-octyltin derivatives	Multiple	0.01	0.2	
	Monomethyltin	Multiple	0.01	0.2	
	Dimethyltin	Multiple	0.01	0.2	
	Trimethyltin	Multiple	0.01	0.2	
	Monobutyltin	Multiple	0.01	0.2	
	Dibutyltin	Multiple	0.01	0.2	
	Tributyltin	Multiple	0.01	0.2	
	Monophenyltin	Multiple	0.01	0.2	
	Diphenyltin	Multiple	0.01	0.2	
	Triphenyltin	Multiple	0.01	0.2	
	Monooctyltin	Multiple	0.01	0.2	
	Dioctyltin	Multiple	0.01	0.2	
	Trioctyltin	Multiple	0.01	0.2	
2K. Perfluorinated and Polyfluorinated Chemicals (PFCs)	Perfluorooctanesulfonic acid (PFOS)	1763-23-1	0.01	0.10	DIN 38407-42 (modified) Ionic PFC: Concentration or direct injection, LC/MS(-MS); Non-ionic PFC (FTOH): derivatisation with acetic anhydride, followed by GC/MS
	Perfluoro-n-octanoic acid (PFOA)	335-67-1	0.01	0.10	
	Perfluorobutanesulfonic acid (PFBS)	29420-49-3, 29420-43-3	0.01	0.10	
	Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	0.01	0.10	
	8:2 FTOH	678-39-7	1	1	
	6:2 FTOH	647-42-7	1	1	
2L. Phthalates (including all other esthers of phthalic acid)	Di-2-ethylhexyl phthalate (DEHP)	117-81-7	10	2	US EPA 8270D, ISO 18856 Dichloromethane extraction GC/MS
	Dimethoxyethyl phthalate (DMEP)	117-82-8	10	2	
	Di-n-octyl phthalate (DNOP)	117-84-0	10	2	
	Di-iso-decyl phthalate (DIDP)	26761-40-0	10	2	
	Di-iso-nonyl phthalate (DINP)	28553-12-0	10	2	
	Di-n-hexyl phthalate	84-75-3	10	2	

Group	Substance (Testing parameter)	CAS No.	Report Limit		Name of the testing method
			Wastewater (ug/L)/(ppb)	Sludge (mg/kg)/(ppm)	
	(DnHP)				
	Dibutyl phthalate (DBP)	84-74-2	10	2	
	Butyl benzyl phthalate (BBP)	85-68-7	10	2	
	Dinonyl phthalate (DNP)	84-76-4	10	2	
	Diethyl phthalate (DEP)	84-66-2	10	2	
	Di-n-propyl phthalate (DPRP)	131-16-8	10	2	
	Di-iso-butyl phthalate (DIBP)	84-69-5	10	2	
	Di-cyclohexyl phthalate (DCHP)	84-61-7	10	2	
	Di-iso-octyl phthalate (DIOP)	27554-26-3	10	2	
	1,2-benzenedicarboxylic acid, di-C7-11-branched and linearalkyl esters (DHNUP)	68515-42-4	10	2	
	1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	10	2	
2M. Poly Aromatic Hydrocarbons (PaHs)	Benzo[a]pyrene (BaP)	50-32-8	1	0.2	DIN 38407-39 Solvent extraction GC/MS
	Anthracene	120-12-7	1	0.2	
	Pyrene	129-00-0	1	0.2	
	Benzo[ghi]perylene	191-24-2	1	0.2	
	Benzo[e]pyrene	192-97-2	1	0.2	
	Indeno[1,2,3-cd]pyrene	193-39-5	1	0.2	
	Benzo[j]fluoranthene	205-82-3	1	0.2	
	Benzo[b]fluoranthene	205-99-2	1	0.2	
	Fluoranthene	206-44-0	1	0.2	
	Benzo[k]fluoranthene	207-08-9	1	0.2	
	Acenaphthylene	208-96-8	1	0.2	
	Chrysene	218-01-9	1	0.2	
	Dibenz[a,h]anthracene	53-70-3	1	0.2	
	Benzo[a]anthracene	56-55-3	1	0.2	
	Acenaphthene	83-32-9	1	0.2	
	Phenanthrene	85-01-8	1	0.2	
	Fluorene	86-73-7	1	0.2	
	Naphthalene	91-20-3	1	0.2	
2N. Volatile Organic Compound (VOCs)	Benzene	71-43-2	1	2	ISO 11423-1 Headspace- or Purge-and-Trap-GC/MS
	Xylene	1330-20-7	1	2	
	o-cresol	95-48-7	1	2	
	p-cresol	106-44-5	1	2	
	m-cresol	108-39-4	1	2	
1A. Conventional Parameters	Temperature	—	N/A	N/A	Apply the standard methods that best apply to the region (ISO, EU, US, China), please refer to ZDHC Wastewater Guidelines for more details on the testing method and the levels
	TSS	—	N/A	N/A	
	COD	—	N/A	N/A	
	Total-N	—	N/A	N/A	
	pH	—	N/A	N/A	
	Color [m^{-1}] (436nm; 525nm; 620nm)	—	N/A	N/A	
	BOD5	—	N/A	N/A	

Group	Substance (Testing parameter)	CAS No.	Report Limit		Name of the testing method
			Wastewater (ug/L)/(ppb)	Sludge (mg/kg) /(ppm)	
	Ammonium-N	–	N/A	N/A	(Foundational, Progressive, and Aspirational). Cyanide: With reference to APHA 4500 CN—B,C&E and followed by UV analysis
	Total-P	–	N/A	N/A	
	AoX	–	N/A	N/A	
	Oil and Grease	–	N/A	N/A	
	Phenol	–	N/A	N/A	
	Coliform(bacteria/100ml)	–	N/A	N/A	
	Persistent Foam	–	Not visible	Not visible	
	ANIONS				
	Cyanide(CN-)	Various (incl. 57-12-5)	0.02	1	
	Sulfide	–	N/A	N/A	
	Sulfite	–	N/A	N/A	
Group	Substance (Testing parameter)	CAS No.	Report Limit		Name of the testing method
			Wastewater (mg/L) / (ppm)	Sludge (mg/kg) / (ppm)	
1B. Conventional Parameters - **METALS**	Antimony(Sb)	7440-36-0	0.001	N/A	Various Acid Digestion with ICP analysis please refer to ZDHC Wastewater Guidelines for more details on the testing method and the levels (Foundational, Progressive, and Aspirational). Cr(VI): Various Solvent extraction and derivatisation followed by UV analysis
	Chromium(Cr), total	7440-47-3	0.001	N/A	
	Cobalt(Co)	7440-48-4	0.001	N/A	
	Copper(Cu)	7440-50-8	0.001	N/A	
	Nickel (Ni)	7440-02-0	0.001	N/A	
	Silver (Ag)	7440-22-4	0.001	N/A	
	Zinc(Zn)	7440-66-6	0.001	N/A	
	Arsenic (As)	7440-38-2	0.001	2	
	Cadmium(Cd)	7440-43-9	0.0001	2	
	Chromium VI(CrVI)	18540-29-9	0.001	2	
	Lead(Pb)	7439-92-1	0.001	2	
	Mercury (Hg)	7439-97-6	0.00005	0.2	
3. Conventional Parameters	Dry mass (total solids)	–	N/A	N/A	US EPA 160.3 / 209A

Note / Key :

ppm = part(s) per million; ppb = part(s) per billion
U. S. EPA = United States Environmental Protection Agency
APHA = American Public Health Association

APPENDIX C – Onsite Field Data Record Sheet

FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)	CPSD-AN-00613-DATA 04
	Issue Date:
	Version No.: 14
	Business Line: Analytical

General Data

Laboratory Sample Number:	72210990169
Client Name	AKPOLAT LOJİSTİK TEKSTİL VE İNŞ. İTH. İHR. SAN. TİC. LTD. ŞTİ.
Field Contact Person:	TUGCE IMIR Phone No: 0545 517 50 95
Project (Facility Name and Address):	FEVZİPAŞA NEIGHBORHOOD DERMAN STREET NO:25-25 /A-25/ B SİLİVRİ/İSTANBUL
Sampling Location / Description:	BEFORE TREATMENT
Sample Identification:	Zero discharge with sampling plan
Sample Type:	Composite Sample
Name of Sampler:	Eray ORAK
Discharge mode:	Direct discharge to environment (Specify destination: River, Sea, Stream...) OR Indirect discharge to sewage treatment plant
Date of collection:	07.10.2021
Factory Type:	Dyeing / Printing / Washing / Finishing / Others (please specify):
	*Note: It would be selected more than one

Field Data for Wastewater

Arrival Time:			Departure Time:					
Field Parameters	pH :		Temp : °C		Color :		Flow rate : (volume/min)	
Control No. of field equipment								
Factory with effluent treatment plant:			Yes		No			
Sample matrix:		Incoming water (If required)						
	x	Wastewater before treatment						
		Wastewater after treatment – water at discharge point						
Sampler container number								
	1	2	3	4	5	6	7	8
Recording time ID								
Recording time Time	10:50	11:50	12:50	13:50	14:50	15:50		
pH :	7,11	7,22	7,13	7,13	6,96	6,78		
Temp (°C) :	39,8	39,0	38,5	38,2	37,9	37,2		
Color (visual estimation):	Beige	Beige	Beige	Beige	Beige	Beige		
Flow rate (volume/time)								
Volume collected, mL								
Total volume collected		Remark: Total volume collected must be greater than total of sample size required						

Analysis Required and Preservation Method

Tests (ZDHC MRSL Parameters)		Test required (√)	Total of sample size	Type of container	Preservation method
Combined test or Individual test (Remark 4)	1. Phthalate	√	1000 mL total or 1000 mL each	Amber Glass,washed with nitric acid,	Without adding acid Store sample at 2-8°C
	2. Chlorobenzenes, Chlorotoluene & PAH	√			
	3. SCCPs	√			
	4. APS	√			
5. APEOs		√	100 mL		
6. Chlorophenols & Cresols		√	100 mL		
7. Flame retardant		√	500 mL		
8. Dyes		√	10 mL		
9. Glycol		√	50 mL		
10. *Pesticides			1000 mL		
11. *Nitrosamine			10 mL		
12. Banned Azodyes		√	2000 mL		
13. *Free primary aromatic amines			500 mL		
14. Organotin Compounds		√	500 mL		
15. VOC & Halogenated Solvents (Remark 6)		√	10 mL		Fill to full container without air gap; acidify to pH 2 with HCl and store sample at 2-8°C
16. PFCs (Remark 6)		√	2 mL	PE, washed with pesticide grade Acetone	Without adding acid Store sample at 2-8°C

FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)

CPSD-AN-00613-DATA 04
Issue Date:
Version No.: 14
Business Line: Analytical

Tests (Conventional Parameters)		Test required (√)	Total of sample size	Type of container	Preservation method
Combined test or Individual test (Remark 4)	17. Total suspened solids (TSS)		2000 mL total or 2000 mL each	Amber Glass, washed with nitric acid,	Without adding acid Store sample at 2-8°C
	18. Total dissolved solids (TDS)				
19. 5-day Biochemical Oxygen Demand (BOD5)			1000 mL		
20. Colour			100 mL		
21. Heavy Metals except Cr(VI) & Total-P (Remark 6)		√	9 mL	PE, washed with nitric acid	Acidify to pH 2 with HNO_3 and store at 2-8°C
22. Cyanide			500 mL	Amber Glass, washed with pesticide grade acetone	Adjust pH 12 with 50% NaOH, add 0.05 ml of 10% $Na_2S_2O_3$, and store sample at 2-8°C
23. Cr(VI)		√	95 mL	Amber Glass; washed with nitric acid	Filter by 0.45µm filter in field, fill to full container without air gap; adjust pH to 9.0-9.5 by adding ammonium buffer. Store sample at 2-8°C
24. Chemical oxygen demand (COD)			150 mL		
25. Phenols			500 mL		Acidify to pH 2 with H_2SO_4 Store sample at 2-8°C
26. Oil and Grease & Total Hydrocarbon			1000 mL		
27. *Formaldehyde			25 mL		Fill to full container without air gap; acidify to pH 2 with H_2SO_4 and store sample at 2-8°C
28. Sulfide (Remark 5)			50 mL	PE, washed with pesticide grade Acetone;	Fill to full container without air gap; add 2 drops of 2M zinc acetate, adjust pH to 9 with 6M NaOH Store sample at 2-8°C
29. Total Coliform (Remark 6)			125 mL	PE, clean, sterile, non-reactive	Add 0.05 ml of 10% $Na_2 2O_3$ Store sample at 2-8°C
30. Faecal Coliform (Remark 6)			125 mL		
31. Persistent foam			N.A.	Foam higher than 45 cm (visual estimation): Yes / No	
32. Sulfite			100 mL	Amber Glass, washed with pesticide grade acetone	Add 1mL of 2.5% EDTA, 0.5g zinc acetate Store sample at 2-8°C
33. Total-N			100 mL	Amber Glass;washed with nitric acid;	Acidify to pH 2 with H_2SO_4 Store sample at 2-8°C
34. Ammonium-N			500 mL		
35. Adsorbable organically bound halogens (AOX)			100 mL		
36. Acute aquatic toxicity: Luminus Bacteria; Fish Egg; Daphne; Alage;			1000 mL		Without adding acid Store sample at 2-8°C
37. Sulphate			100 mL		
38. Chloride			100 mL		
39. Others:					
Observation/ Remark:					

*Remarks:

1.Individual sampling can be performed upon request

2. The minimum sampling time for 2019 ZDHC guideline is 6 hours with no more than one hour between discrete samples. Sampling time could be adjusted upon request.

3. Scope of ZDHC guideline: Parameter 1-9, 12, 14-17, 19-26, 28, 29, 31-35
   Scope of synthetic leather industry: Parameter 1-9, 12, 14-21, 23-26, 28, 30, 31, 33, 34, 37, 38
   Scope of MMCF: Parameter 5, 15, 17, 19-21, 23 - 26, 28, 33-36
   Free primary aromatic amine, pesticides, nitrosamine and formaldehyde are not in the scope of ZDHC Guidline, they are tested upon request.

4. Refer to CPSD-AN-G00019-STIP01, loactions with those CPSD test capability inside TCD matrix can perform the combined test.

5. Refer to CPSD-AN-000570-MTHD for additional pretreatment of sulfide if only dissolved sulfide is required to be tested.

6. Refer to CPSD-AN-00613-MTHD for preparation of field blank for specific parameters.

Recorded by: Full name: Eray OPAK Date: 07.10.2021

Comment from factory

Acknowledgement by factory

I hereby confirmed that Bureau Veritas has completed the stated sampling activity at captioned date, time and location. All sample(s) is/are collected in desinated container(s) and without any observation in leakage. Sample(s) collected by Bureau Veritas is/are stored in portable freezer / fridge that is maintained in 1-6°C

Signatory of Factory Representative: Full Name: Tuğçe İNCE ERDOĞAN Date: 07/10/2021

AKPOLAT
LOJİSTİK TEKSTİL VE İNŞAAT
İTHALAT İHRACAT SAN. TİC. LTD. ŞTİ.
Değirmenköy, Fevzipaşa Mah. Derman Sok.
25-A, Silivri / İSTANBUL
ITO: 747281 SİLİVRİ VD: 034 036 9539
MERSİS NO. 0034-0369-5390-0013

72210990169-AKPOLAT-before

BUREAU VERITAS	**FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)**	CPSD-AN-00613-DATA 04 Issue Date: Version No.: 14 Business Line: Analytical

General Data

Laboratory Sample Number:	72210990169
Client Name:	AKPOLAT LOJİSTİK TEKSTİL VE İNŞ. İTH. İHR. SAN. TİC. LTD. ŞTİ.
Field Contact Person:	TUGCE IMIR Phone No: 0545 517 50 95
Project (Facility Name and Address):	FEVZIPAŞA NEIGHBORHOOD DERMAN STREET NO:25-25 /A-25/ B SİLİVRİ/İSTANBUL
Sampling Location / Description:	AFTER TREATMENT
Sample Identification:	Zero discharge with sampling plan
Sample Type:	Composite Sample / Grab sample (Please delete as appropriate)
Name of Sampler:	Ecay ORAL
Discharge mode:	Direct discharge to environment (Specify destination: River, Sea, Stream...) OR Indirect discharge to sewage treatment plant
Date of collection:	07.10.2021
Factory Type:	Dyeing / Printing / Washing / Finishing / Others (please specify):
	*Note: It would be selected more than one

Field Data for Wastewater

Arrival Time:				Departure Time:					
Field Parameters		pH :		Temp : °C		Color :		Flow rate : (volume/min)	
Control No. of field equipment									
Factory with effluent treatment plant:				Yes		No			
Sample matrix:			Incoming water (If required)						
			Wastewater before treatment						
		x	Wastewater after treatment – water at discharge point						
Sampler container number									
		1	2	3	4	5	6	7	8
Recording time	ID								
	Time	11:00	12:00	13:00	14:00	15:00	16:00		
pH :		7,84	7,94	7,92	7,94	7,87	8,02		
Temp (°C) :		32,2	32,5	33,0	32,9	32,4	31,0		
Color (visual estimation):		Beige	Beige	Beige	Beige	Beige	Beige		
Flow rate (volume/time)									
Volume collected, mL									
Total volume collected			Remark: Total volume collected must be greater than total of sample size required						

Analysis Required and Preservation Method

Tests (ZDHC MRSL Parameters)		Test required (√)	Total of sample size	Type of container	Preservation method
Combined test or Individual test (Remark 4)	1. Phthalate	√	1000 mL total or 1000 mL each	Amber Glass,washed with nitric acid,	Without adding acid Store sample at 2-8°C
	2. Chlorobenzenes, Chlorotoluene & PAH	√			
	3. SCCPs	√			
	4. APS	√			
5. APEOs		√	100 mL		
6. Chlorophenols & Cresols		√	100 mL		
7. Flame retardant		√	500 mL		
8. Dyes		√	10 mL		
9. Glycol		√	50 mL		
10. *Pesticides			1000 mL		
11. *Nitrosamine			10 mL		
12. Banned Azodyes		√	2000 mL		
13. *Free primary aromatic amines			500 mL		
14. Organotin Compounds		√	500 mL		
15. VOC & Halogenated Solvents (Remark 6)		√	10 mL		Fill to full container without air gap; acidify to pH 2 with HCl and store sample at 2-8°C
16. PFCs (Remark 6)		√	2 mL	PE, washed with pesticide grade Acetone	Without adding acid Store sample at 2-8°C

FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)	CPSD-AN-00613-DATA 04
	Issue Date:
	Version No.: 14
	Business Line: Analytical

Tests (Conventional Parameters)		Test required (√)	Total of sample size	Type of container	Preservation method
Combined test or Individual test (Remark 4)	17. Total suspened solids (TSS)	√	2000 mL total or 2000 mL each	Amber Glass, washed with nitric acid,	Without adding acid Store sample at 2-8°C
	18. Total dissolved solids (TDS)				
19. 5-day Biochemical Oxygen Demand (BOD5)		√	1000 mL		
20. Colour		√	100 mL		
21. Heavy Metals except Cr(VI) & Total-P (Remark 6)		√	9 mL	PE, washed with nitric acid	Acidify to pH 2 with HNO_3 and store at 2-8°C
22. Cyanide		√	500 mL	Amber Glass, washed with pesticide grade acetone	Adjust pH 12 with 50% NaOH, add 0.05 ml of 10% $Na_2S_2O_3$, and store sample at 2-8°C
23. Cr(VI)		√	95 mL	Amber Glass; washed with nitric acid	Filter by 0.45μm filter in field, fill to full container without air gap; adjust pH to 9.0-9.5 by adding ammonium buffer. Store sample at 2-8°C
24. Chemical oxygen demand (COD)		√	150 mL		Acidify to pH 2 with H_2SO_4 Store sample at 2-8°C
25. Phenols		√	500 mL		
26. Oil and Grease & Total Hydrocarbon		√	1000 mL		
27. *Formaldehyde			25 mL		Fill to full container without air gap; acidify to pH 2 with H_2SO_4 and store sample at 2-8°C
28. Sulfide (Remark 5)		√	50 mL	PE, washed with pesticide grade Acetone;	Fill to full container without air gap; add 2 drops of 2M zinc acetate, adjust pH to 9 with 6M NaOH Store sample at 2-8°C
29. Total Coliform (Remark 6)		√	125 mL	PE, clean, sterile, non-reactive	Add 0.05 ml of 10% $Na_2S_2O_3$ Store sample at 2-8°C
30. Faecal Coliform (Remark 6)			125 mL		
31. Persistent foam		√	N.A.	Foam higher than 45 cm (visual estimation): Yes / No	
32. Sulfite		√	100 mL	Amber Glass, washed with pesticide grade acetone	Add 1mL of 2.5% EDTA, 0.5g zinc acetate Store sample at 2-8°C
33. Total-N		√	100 mL	Amber Glass;washed with nitric acid;	Acidify to pH 2 with H_2SO_4 Store sample at 2-8°C
34. Ammonium-N		√	500 mL		
35. Adsorbable organically bound halogens (AOX)		√	100 mL		
36. Acute aquatic toxicity: Luminus Bacteria; Fish Egg; Daphne; Alage;			1000 mL		Without adding acid Store sample at 2-8°C
37. Sulphate			100 mL		
38. Chloride			100 mL		
39. Others:					
Observation/ Remark:					

*Remarks:

1.Individual sampling can be performed upon request

2. The minimum sampling time for 2019 ZDHC guideline is 6 hours with no more than one hour between discrete samples. Sampling time could be adjusted upon request.

3. Scope of ZDHC guideline: Parameter 1-9, 12, 14-17, 19-26, 28, 29, 31-35
Scope of synthetic leather industry: Parameter 1-9, 12, 14-21, 23-26, 28, 30, 31, 33, 34, 37, 38
Scope of MMCF: Parameter 5, 15, 17, 19-21, 23 - 26, 28, 33-36
Free primary aromatic amine, pesticides, nitrosamine and formaldehyde are not in the scope of ZDHC Guidline, they are tested upon request.

4. Refer to CPSD-AN-G00019-STIP01, loactions with those CPSD test capability inside TCD matrix can perform the combined test.

5. Refer to CPSD-AN-000570-MTHD for additional pretreatment of sulfide if only dissolved sulfide is required to be tested.

6. Refer to CPSD-AN-00613-MTHD for preparation of field blank for specific parameters.

Recorded by: Full name: Enes ORAL Date: 07.10.2021

Comment from factory

Acknowledgement by factory

I hereby confirmed that Bureau Veritas has completed the stated sampling activity at captioned date, time and location. All sample(s) is/are collected in desinated container(s) and without any observation in leakage. Sample(s) collected by Bureau Veritas is/are stored in portable freezer / fridge that is maintained in 1-6°C

Signatory of Factory Representative: Full Name: Tuğçe İnci ERDOĞAN Date: 07/10/2021

AKPOLAT
LOJİSTİK TEKSTİL VE İNŞAAT
İTHALAT İHRACAT SAN. TİC. LTD. ŞTİ.
Değirmenköy Fevzipaşa Mah. Derman Sok.
25-A Silivri/İSTANBUL
ITO: 74728 SİLİVRİ VD: 034 036 9539
MERSİS NO. 0034-0369-5390-0013

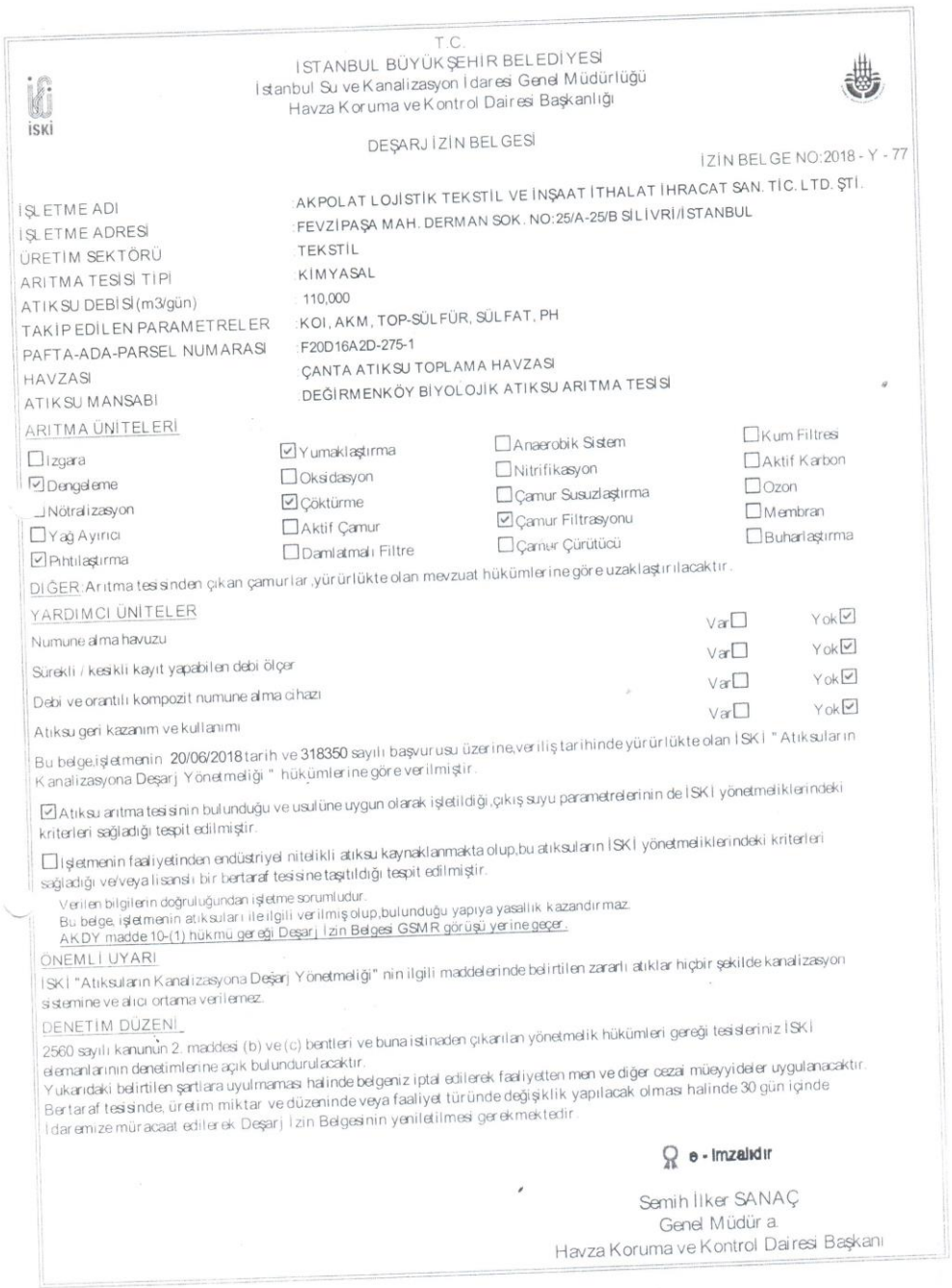
72210990169-AKPOLAT-after

APPENDIX D – Limitation Value of Legal Requirements

TABLO I: DEŞARJ LİMİTLERİ

ATIKSULARIN ATIKSU ALTYAPI TESİSLERİNE DEŞARJINDA ÖNGÖRÜLEN ATIKSU STANDARTLARI

Parametre	Kanalizasyon Sistemleri Tam Arıtma İle Sonuçlanan Atıksu Altyapı Tesislerinde	Kanalizasyon Sistemleri Ön Arıtma + Derin Deniz Deşarjı İle Sonuçlanan Atıksu Altyapı Tesislerinde
Sıcaklık (°C)	50	50
pH	6 - 12	6 - 12
Askıda katı madde (mg/L)	500	350
Yağ ve gres (mg/L)	150	50
Kimyasal oksijen ihtiyacı (KOİ) (mg/L)	1000	600
Sülfat ($SO_4^{=}$) (mg/L)	1700	1700
Toplam sülfür (S) (mg/L)	2	2
Fenol (mg/L)	10	10
Toplam fosfor (P) (mg/L)	-	10
Arsenik (As) (mg/L)	3	10
Toplam siyanür (Toplam CN^-) (mg/L)	10	10
Toplam kurşun (Pb) (mg/L)	3	3
Toplam kadmiyum (Cd) (mg/L)	2	2
Toplam krom (Cr) (mg/L)	5	5
Toplam civa (Hg) (mg/L)	0.2	0.2
Toplam bakır (Cu) (mg/L)	5	5
Toplam nikel (Ni) (mg/L)	5	5
Toplam çinko (Zn) (mg/L)	10	10
Cl^- (Klorür) (mg/L)	15000	-
Metilen mavisi ile reaksiyon veren yüzey aktif maddeleri(MBAS) (mg/L)	Biyolojik olarak parçalanması Türk Standartları Enstitüsü standartlarına uygun olmayan maddelerin boşaltımı prensip olarak yasaktır.	



T.C.
İSTANBUL BÜYÜKŞEHİR BELEDİYESİ
İstanbul Su ve Kanalizasyon İdaresi Genel Müdürlüğü
Havza Koruma ve Kontrol Dairesi Başkanlığı

İSKİ

DEŞARJ İZİN BELGESİ

İZİN BELGE NO:2018 - Y - 77

İŞLETME ADI : AKPOLAT LOJİSTİK TEKSTİL VE İNŞAAT İTHALAT İHRACAT SAN. TİC. LTD. ŞTİ.
İŞLETME ADRESİ : FEVZİPAŞA MAH. DERMAN SOK. NO:25/A-25/B SİLİVRİ/İSTANBUL
ÜRETİM SEKTÖRÜ : TEKSTİL
ARITMA TESİSİ TİPİ : KİMYASAL
ATIKSU DEBİSİ(m3/gün) : 110,000
TAKİP EDİLEN PARAMETRELER : KOI, AKM, TOP-SÜLFÜR, SÜLFAT, PH
PAFTA-ADA-PARSEL NUMARASI : F20D16A2D-275-1
HAVZASI : ÇANTA ATIKSU TOPLAMA HAVZASI
ATIKSU MANSABI : DEĞİRMENKÖY BİYOLOJİK ATIKSU ARITMA TESİSİ

ARITMA ÜNİTELERİ

☐ Izgara	☑ Yumaklaştırma	☐ Anaerobik Sistem	☐ Kum Filtresi
☑ Dengeleme	☐ Oksidasyon	☐ Nitrifikasyon	☐ Aktif Karbon
☐ Nötralizasyon	☑ Çöktürme	☐ Çamur Susuzlaştırma	☐ Ozon
☐ Yağ Ayırıcı	☐ Aktif Çamur	☑ Çamur Filtrasyonu	☐ Membran
☑ Pıhtılaştırma	☐ Damlatmalı Filtre	☐ Çamur Çürütücü	☐ Buharlaştırma

DİĞER: Arıtma tesisinden çıkan çamurlar ,yürürlükte olan mevzuat hükümlerine göre uzaklaştırılacaktır.

YARDIMCI ÜNİTELER

Numune alma havuzu	Var☐	Yok☑
Sürekli / kesikli kayıt yapabilen debi ölçer	Var☐	Yok☑
Debi ve orantılı kompozit numune alma cihazı	Var☐	Yok☑
Atıksu geri kazanım ve kullanımı	Var☐	Yok☑

Bu belge,işletmenin 20/06/2018 tarih ve 318350 sayılı başvurusu üzerine,veriliş tarihinde yürürlükte olan İSKİ " Atıksuların Kanalizasyona Deşarj Yönetmeliği " hükümlerine göre verilmiştir.

☑ Atıksu arıtma tesisinin bulunduğu ve usulüne uygun olarak işletildiği,çıkış suyu parametrelerinin de İSKİ yönetmeliklerindeki kriterleri sağladığı tespit edilmiştir.

☐ İşletmenin faaliyetinden endüstriyel nitelikli atıksu kaynaklanmakta olup,bu atıksuların İSKİ yönetmeliklerindeki kriterleri sağladığı ve/veya lisanslı bir bertaraf tesisine taşıtıldığı tespit edilmiştir.

Verilen bilgilerin doğruluğundan işletme sorumludur.
Bu belge, işletmenin atıksuları ileilgili verilmiş olup,bulunduğu yapıya yasallık kazandırmaz.
AKDY madde 10-(1) hükmü gereği Deşarj İzin Belgesi GSMR görüşü yerine geçer.

ÖNEMLİ UYARI

İSKİ "Atıksuların Kanalizasyona Deşarj Yönetmeliği" nin ilgili maddelerinde belirtilen zararlı atıklar hiçbir şekilde kanalizasyon sistemine ve alıcı ortama verilemez.

DENETİM DÜZENİ

2560 sayılı kanunun 2. maddesi (b) ve (c) bentleri ve buna istinaden çıkarılan yönetmelik hükümleri gereği tesisleriniz İSKİ elemanlarının denetimlerine açık bulundurulacaktır.
Yukarıdaki belirtilen şartlara uyulmaması halinde belgeniz iptal edilerek faaliyetten men ve diğer cezai müeyyideler uygulanacaktır.
Bertaraf tesisinde, üretim miktar ve düzeninde veya faaliyet türünde değişiklik yapılacak olması halinde 30 gün içinde İdaremize müracaat edilerek Deşarj İzin Belgesinin yeniletilmesi gerekmektedir.

e - İmzalıdır

Semih İlker SANAÇ
Genel Müdür a.
Havza Koruma ve Kontrol Dairesi Başkanı